

## **RAW SEQUENCE LISTING**

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Application Serial Number: 10 | 735, 429  
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## RAW SEQUENCE LISTING

DATE: 11/17/2005

PATENT APPLICATION: US/10/735,429

TIME: 10:01:29

Input Set : N:\Crif3\RULE60\10735429.raw

Output Set: N:\CRF4\11172005\J735429.raw

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1 <110> APPLICANT: JEAN CHRISTOPHE AUDONNET ET AL.
2 <120> TITLE OF INVENTION: LIVE RECOMBINED VACCINES INJECTED WITH ADJUVANT
3 <130> FILE REFERENCE: 454313-3159
4 <140> CURRENT APPLICATION NUMBER: US/10/735,429
5 <141> CURRENT FILING DATE: 2003-12-12
6 <150> PRIOR APPLICATION NUMBER: US/09/622,951
7 <151> PRIOR FILING DATE: 2000-10-17
8 <150> PRIOR APPLICATION NUMBER: PCT/FR99/00453
9 <151> PRIOR FILING DATE: 1999-03-01
10 <160> NUMBER OF SEQ ID NOS: 31
11 <170> SOFTWARE: PatentIn Ver. 2.1
13 <210> SEQ ID NO: 1
14 <211> LENGTH: 1698
15 <212> TYPE: DNA
16 <213> ORGANISM: Equine Influenza Virus, Newmarket 2/93 Strain
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18      atgaagacaa ccattatttt gatactactg acccattggg tctacagtca aaacccaacc 60
19      agtggcaaca acacagccac attatgtctg ggacaccatg cagtagcaaa tggaaacattg 120
20      gtaaaaaaaa taactgatga ccaaatgtag gtgacaaatg ctactgaatt agttcagagc 180
21      atttcaatag ggaaaatatg caacaactca tatagagttc tagatggaag aaattgcaca 240
22      ttaatagatg caatgctagg agacccccac tgtgatgtct ttcagtatga gaattgggac 300
23      ctcttcatag aaagaagcag cgcttttcagc aattgctacc catatgacat ccctgactat 360
24      gcatcgctcc ggtccattgt agcatcctca ggaacattgg aattcacagc agaggggattc 420
25      acatggacag gtgtcactca aaacggaaga agtggagcct gcaaaagggg atcagccgat 480
26      agtttcttta gccgactgaa ttggctaaca aaatctggaa actcttacc caccattgaat 540
27      gtgacaatgc ctaacaataa aaatttcgac aaactataca tctgggggat tcatcacccg 600
28      agctcaaacc aacagcagac agaattgtac atccaagaat caggacgagt aacagtctca 660
29      acaaaaagaa gtcaacaaac gataatccct aatatcggat ctagaccatg ggtcaggggt 720
30      caatcaggca ggataagcat atactggacc attgtaaaac ctggagatat cctaatagata 780
31      aacagtaatg gcaacttagt tgcaccgcgg ggataattta aattgaaaac agggaaaagc 840
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34      cccaagtata tcaggcaaaa cactttaaag ctggccactg ggatgaggaa tgtaccagaa 1020
35      aagcaaatca gaggaatctt tggagcaata gcgggattca tagaaaacgg ctgggaagga 1080
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37      gatctaaaga gcactcaagc agccatcgac cagattaatg gaaaattaaa cagagtgatt 1200
38      gaaaggacca atgagaaatt ccatcaaata gagaaggaat tctcagaagt agaagggaga 1260
39      atccaggact tggagaagta tgtagaagac accaaaatag acctatggtc ctacaatgca 1320
40      gaattgctgg tggctctaga aaatcaacat acaattgact taacagatgc agaaatgaat 1380
41      aaattattcg agaagactag acgccagtta agagaaaacg cggaagacat gggaggtgga 1440
42      tgtttcaaga tttaccacaa atgtgataat gcatgcattg gatcaataag aaatgggaca 1500
43      tatgaccatt acatatacag agatgaagca ttaaacaacc gatttcaaat caaaggtgtt 1560
44      gagttgaaat caggctacaa agattggata ctgtggattt cattcgccat atcatgcttc 1620

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45      ttaatttgcg ttgttctatt gggctctcatt atgtgggctt gccaaaaagg caacatcaga 1680
46      tgcaacattt gcatttga                                1698
48 <210> SEQ ID NO: 2
49 <211> LENGTH: 2956
50 <212> TYPE: DNA
51 <213> ORGANISM: Feline Herpesvirus
52 <400> SEQUENCE: 2
53      atgtatgggtt actggctgga atgtgttatt tgtacagtca tatgtaatgt accactcaac 60
54      acgatataatt tatatcgagg ttgtgtctaa taactgtttt taaataaaga gataagtcga 120
55      aatcacaggc agtgaaatgc cttaaaaatg ggtctcctgt ctatgttagg aatctcttat 180
56      tttaagtagt cccgcgagac gatttacatc cgggagtcac caacaatctg cgatgagacg 240
57      atataggatg ggacgcggaa tctaccttct ctatatctgt ctgttatata catatctcca 300
58      gtttggtact tcgtcgacaa ccgcggctcag tattgaaaat agtgataata gtactgcgga 360
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60      cactactcca actagaagat ctacaaatat agctacaagt tcgagtacca cccaggcacc 480
61      ccagccaaca tctacattaa ctactctaac tagaagctcg acaactatag ctacaagtcc 540
62      gagtaccacc caggcagcca cattcatagg atcatctacc gattccaata ccactttact 600
63      caaaacaaca aaaaaaccaa agcgtaaaaa gaataagaat aacggggcca gatttaaatt 660
64      agattgtgga tataaggggg ttatctacag accgtatttt agccctcttc agctaaactg 720
65      tactctacc acagaacctc atattaccaa cctattgac ttcgagatct ggtttaaacc 780
66      acgcaccaga tttggggatt ttcttgggga taaagaagac ttcgtaggga atcataccg 840
67      caccagcata ttactattta gcagccgtaa tgggagtggt aattccatgg atcttgggga 900
68      cgcgacactc gggatcctac aatctaggat accagattac acattatata atattcccat 960
69      acaacatacc gaagcgatgt cattgggaat caaatctgtg gaatctgcca cgtccggtgt 1020
70      ttatacatgg cgggtctatg gtggagatgg actaaataaa acagtgtctag gacaggtaaa 1080
71      tgtatctgta gtggcatatc acccccgcag cgtaaatctt acaccacgcg ccagtctatt 1140
72      taataagacc tttgaggcgg tatgtgcagt ggcgaattac ttcccgcgat ccacgaaact 1200
73      aacatggtat cttgacggga agccaataga aaggcaatac atttcagata cggcaagtgt 1260
74      atggatagat ggactcatca ccagaagttc tgtgttggct attccgacaa ctgaaacaga 1320
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76      gagattcacg aaaagtgtag ccccggaagt ctattaccca cctactgtgt ctgttacctt 1440
77      cgctgataca cgggctatat gtgatgttaa atgtgtacca cgggacggga tatccttgat 1500
78      gtggaaaatt ggttaactacc atctacccaa agcaatgagt gctgatatac tgatcacagg 1560
79      tccgtgtata gaacgtccag gtttgggtcaa cattcagagt atgtgtgata taccagaaac 1620
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82      tgtcgttgct gtaatactag gagctgttct catcacagtc tttatcttta ttacggcatt 1800
83      atgtttatat tattctcatc cccggcgatt ataactctta tagttcgtat aaattactta 1860
84      tcataaccgt gtttcagcgg ttatatTTTT ataacagtta attgtttact aatagtttac 1920
85      aaagtccatc gttttataaaa aacaagccca gtggtattat aatcattcgt atggatataa 1980
86      accgactcca atccgtgatc tttggtaacc cgcgacgtaa ttactctcac acattttaac 2040
87      tagtctacga tcaccagat ataataaaaa gattcgcgtg gacatgcaag gtatgaggtc 2100
88      tacgtcacag ccgttggtcg agataccact ggtagatatg gaaccacagc catctataca 2160
89      ctccaacgag cctaaccac cgaataaaat gttgacgaca gctatttcat cgcgtaggag 2220
90      tgggaattttt ttattttctc tgggtatgtt ttttttcgga gttatcctaa cagctactat 2280
91      tatagtatgt acattcatat ttacaatacc agtggatatg ctccagatgc cacgctgccc 2340
92      tgaggaaacg gtgggtatca aaaactgttg tatccgaccg attagacgcc atgttaaate 2400
93      acaccaagat ctagttgcca catgtgccga atacatggaa caaccgcgcg gccgcattctg 2460
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95      actctcttta cgattgtatt ctctctgatg aaaaaaaatc gtgtaatata tcaatggccg 2580
96      tatgtcaatc aacatatctt ccaaatcccc taagtgactt tattatgcgc gttaggcaga 2640
97      tattttctgg aatcctaaat cattaatcca ttactaaat aaataaaca taccgtttag 2700
98      gtaattaaac atgattctag tgtttattgt cgtatgtacg ggcgatgggt ggataacaac 2760
99      tcgacaatga tcaattatat tgattaacct tgtaataaat tcgtcggatt attggatata 2820
100     tcgagatgat atcacattat tttctaatag cgtgtgtttg aaagtccacc ctactagtgc 2880
101     catgtgcgcg tttgatcgaa gaggcattta atgttgccag agtttcaatt ccgtatgtat 2940
102     cgtcgagtaa tctaga                                     2956
104 <210> SEQ ID NO: 3
105 <211> LENGTH: 70
106 <212> TYPE: DNA
107 <213> ORGANISM: Equine influenza virus
108 <400> SEQUENCE: 3
109     cgcgcccatc gcgatatccg ttaagtttgt atcgtaatga acactcaaat tctaataatta 60
110     gccacttcgg                                     70
112 <210> SEQ ID NO: 4
113 <211> LENGTH: 36
114 <212> TYPE: DNA
115 <213> ORGANISM: Equine influenza virus
116 <400> SEQUENCE: 4
117     cgcgcgccgg taccttatat acaaatagtg caccgc                                     36
119 <210> SEQ ID NO: 5
120 <211> LENGTH: 70
121 <212> TYPE: DNA
122 <213> ORGANISM: Equine influenza virus
123 <400> SEQUENCE: 5
124     cgcgcccatc gcgatatccg ttaagtttgt atcgtaatga agacaaccat tattttgata 60
125     ctactgaccc                                     70
127 <210> SEQ ID NO: 6
128 <211> LENGTH: 42
129 <212> TYPE: DNA
130 <213> ORGANISM: Equine influenza virus
131 <400> SEQUENCE: 6
132     cgcgcgccgg tacctcaaat gcaaagtgtg catctgatgt tg                                     42
134 <210> SEQ ID NO: 7
135 <211> LENGTH: 40
136 <212> TYPE: DNA
137 <213> ORGANISM: Equine influenza virus
138 <400> SEQUENCE: 7
139     ttgtcgactc aatcatgaag acaaccatta ttttgatact                                     40
141 <210> SEQ ID NO: 8
142 <211> LENGTH: 34
143 <212> TYPE: DNA
144 <213> ORGANISM: Equine influenza virus
145 <400> SEQUENCE: 8
146     ttggatcctt actcaaatgc aaatggtgca yctg                                     34
148 <210> SEQ ID NO: 9
149 <211> LENGTH: 74
150 <212> TYPE: DNA

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151 <213> ORGANISM: Equine influenza virus
152 <400> SEQUENCE: 9
153      ctagttcgcg atatccgtta agtttgtatc gtaatgaaga caaccattat tttgatacta 60
154      ctgacccatt ggggt                                     74
156 <210> SEQ ID NO: 10
157 <211> LENGTH: 72
158 <212> TYPE: DNA
159 <213> ORGANISM: Equine influenza virus
160 <400> SEQUENCE: 10
161      agacccaatg ggtcagtagt atcaaaataa tggttgtctt cattacgata caaacttaac 60
162      ggatatcgcg aa                                     72
164 <210> SEQ ID NO: 11
165 <211> LENGTH: 20
166 <212> TYPE: DNA
167 <213> ORGANISM: Feline Herpesvirus
168 <400> SEQUENCE: 11
169      gattaaacct aaataattgt                                     20
171 <210> SEQ ID NO: 12
172 <211> LENGTH: 42
173 <212> TYPE: DNA
174 <213> ORGANISM: Feline Herpesvirus
175 <400> SEQUENCE: 12
176      tttttctaga ctgcagcccg ggacatcatg cagtgggtaa ac                                     42
178 <210> SEQ ID NO: 13
179 <211> LENGTH: 18
180 <212> TYPE: DNA
181 <213> ORGANISM: Feline Herpesvirus
182 <400> SEQUENCE: 13
183      ggggtttcaga ggcagttc                                     18
185 <210> SEQ ID NO: 14
186 <211> LENGTH: 21
187 <212> TYPE: DNA
188 <213> ORGANISM: Feline Herpesvirus
189 <400> SEQUENCE: 14
190      atgtccactc gtggcgatct t                                     21
192 <210> SEQ ID NO: 15
193 <211> LENGTH: 42
194 <212> TYPE: DNA
195 <213> ORGANISM: Feline Herpesvirus
196 <400> SEQUENCE: 15
197      tttttctaga ctgcagcccg ggacatcatg cagtgggtaa ac                                     42
199 <210> SEQ ID NO: 16
200 <211> LENGTH: 21
201 <212> TYPE: DNA
202 <213> ORGANISM: Feline Herpesvirus
203 <400> SEQUENCE: 16
204      gtggacacat atagaaagtc g                                     21
206 <210> SEQ ID NO: 17
207 <211> LENGTH: 21

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208 <212> TYPE: DNA
209 <213> ORGANISM: Feline Herpesvirus
210 <400> SEQUENCE: 17
211      caccttcagg atctactgtc g                                21
213 <210> SEQ ID NO: 18
214 <211> LENGTH: 24
215 <212> TYPE: DNA
216 <213> ORGANISM: Feline Herpesvirus
217 <400> SEQUENCE: 18
218      acgcatgatg acaagattat tatc                                24
220 <210> SEQ ID NO: 19
221 <211> LENGTH: 18
222 <212> TYPE: DNA
223 <213> ORGANISM: Feline Herpesvirus
224 <400> SEQUENCE: 19
225      ctgtggaatt cgcaatgc                                18
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228 <211> LENGTH: 48
229 <212> TYPE: DNA
230 <213> ORGANISM: Feline Herpesvirus
231 <400> SEQUENCE: 20
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234 <210> SEQ ID NO: 21
235 <211> LENGTH: 36
236 <212> TYPE: DNA
237 <213> ORGANISM: Feline Herpesvirus
238 <400> SEQUENCE: 21
239      ggtatggcaa atttctttca gggactcggg gatgtg                36
241 <210> SEQ ID NO: 22
242 <211> LENGTH: 17
243 <212> TYPE: DNA
244 <213> ORGANISM: Feline Herpesvirus
245 <400> SEQUENCE: 22
246      tttatattgt aattata                                17
248 <210> SEQ ID NO: 23
249 <211> LENGTH: 17
250 <212> TYPE: DNA
251 <213> ORGANISM: Feline Herpesvirus
252 <400> SEQUENCE: 23
253      gtaaaacgac ggccagt                                17
255 <210> SEQ ID NO: 24
256 <211> LENGTH: 21
257 <212> TYPE: DNA
258 <213> ORGANISM: Feline Herpesvirus
259 <400> SEQUENCE: 24
260      atgatgacac gtctacattt t                                21
262 <210> SEQ ID NO: 25
263 <211> LENGTH: 21
264 <212> TYPE: DNA

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**VERIFICATION SUMMARY**

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